

## Kumaun University, Nainital Curriculum Vitae

Name : Dr. Himani Karki  
Designation : Guest Faculty  
Department : Botany  
Contact Information  
• Email Address : karki.glacier@gmail.com  
• Mobile No : 8171636906  
LinkedIn Profile (Optional) :  
ORCID ID : 0000-0001-9288-9748  
Scopus ID : 56111917700  
Vidwan ID : 512034



### Educational Qualification

Degree	University	Subjects	Year
B.Sc.	Kumaun	Zoology, Botany, Chemistry	2012
M.Sc.	Kumaun	Botany	2014
Ph.D.	Kumaun	Ecology	2021

### Work Experience

Position	Department	University/Organization	Year
Guest Faculty	Botany	DSB Campus, Kumaun University	2022
Project Associate-I	Habitat Ecology	Wildlife Institute of India, Dehradun	2021- 2022
JRF/SRF	Botany	Kumaun	2015- 2018
Project Fellow	Botany	Kumaun	2015

### Research Interests

Forest Ecology, Carbon sequestration potential, Regeneration status, Seed germination potential, Biodiversity Conservation and assessment, Tree fine root dynamics, Nitrogen mineralization, Agro-ecosystems of Himalayan region, Ecosystem services.

## Publications

### a) Research Papers

Authors name	Title of the paper	Journal, vol, page no	Year
Pandey R, Bargali SS, Bargali K, <b>Karki H</b> , Chaturvedi RV	Dynamics of Nitrogen Mineralization and Fine Root Decomposition in sub-tropical <i>Shorea robusta</i> Gaertner f. Forests of Central Himalaya, India.	<i>Science of the Total Environment</i> 1-15	2024
Manral V, Bargali K, Bargali SS, <b>Karki H</b> , Chaturvedi RV	Seasonal Dynamics of Soil Microbial C, N and P along an Altitudinal Gradient in Central Himalaya, India.	<i>Sustainability</i> 15: 1-12	2023
Pandey R, Bargali SS, Bargali K, <b>Karki H</b> , Kumar M, Sahoo UK	Fine Root Dynamics and Associated Nutrient Flux in Sal Dominated Forest Ecosystems of Central Himalaya, India.	<i>Frontiers in Forests and Global Change</i> 1-19,	2023
<b>Karki H</b> , Bargali K, Bargali SS	Dynamics of Fine Root and Soil Nitrogen in <i>Mangifera indica</i> based Agroforestry Systems in Bhabhar Belt of Kumaun Himalaya, India.	<i>Land Degradation and Development</i> 33: 3523–3538,	2022
<b>Karki H</b> , Bargali K, Bargali SS	Spatial and Temporal Trends in Soil N-Mineralization Rates under the Agroforestry Systems in Bhabhar Belt of Kumaun Himalaya, India.	<i>Agroforestry Systems</i> 95: 1603-1617	2021
<b>Karki H</b> , Bargali K, Bargali SS	Nitrogen Mineralization Patterns in <i>Populus deltoides</i> and <i>Tectona grandis</i> Based Agrisilvicultural Practices in Central Himalaya, India.	<i>Vegetos</i> 34:86–93	2021
<b>Karki H</b> , Bargali K, Bargali SS	Spatial and Seasonal Pattern of Fine Root Biomass and Turnover Rate in Different Land Use Systems in Central Himalaya, India.	<i>Russian Journal of Ecology</i> 52: 36-48	2021
Pandey R, Vibhuti, <b>Karki H</b> , Awasthi P, Bargali K, Bargali SS	Effect of Wildfire on Herbaceous Vegetation in Cypress Mixed Oak Forest of Nainital, Kumaun Himalaya, India.	<i>Current Trends in Forest Research</i> 2018: 1-17	2018
<b>Karki H</b> , Bargali K,	Effect of Sowing Time on Germination and Early Seedling Growth of <i>Quercus</i>	<i>Journal of Forest and Environmental Science</i> 34(3):	2018

Bargali SS	<i>floribunda</i> Lindl.	199-208	
Bargali K, <b>Karki H</b> , Vibhuti, Bargali SS	Contribution of Homegarden Agroforestry in Livelihood of Rural Farmers in Kumaun Himalaya.	<i>Bionature</i> 38(1): 34-47.	2018
Manral V, Padalia K, <b>Karki H</b>	Plant Diversity and Regeneration Potential of Three Different Forests of Central Himalaya.	<i>Current World Environment</i> 13(1): 113-123.	2018
<b>Karki H</b> , Bargali K, Bargali SS, Vibhuti	Seed Size Variation in <i>Quercus floribunda</i> Lindl. and Its Effect on Germination and Seedling Growth.	<i>Current trends in Forest Research</i> 2018: 1-7	2018
<b>Karki H</b> , Bargali K, Bargali SS, Vibhuti, Rawat YS	Plant Diversity, Regeneration Status and Standing Biomass Under Varied Degree of Disturbances in Temperate Mixed Oak-Conifer Forest, Kumaun Himalaya.	<i>International Journal of Ecology and Environmental Sciences</i> 43 (4): 331-345	2017
Awasthi P, <b>Karki H</b> , Vibhuti, Bargali K, Bargali SS	Germination and Seedling Growth of Pulse Crop ( <i>Vigna</i> Spp.) as Affected by Soil Salt Stress.	<i>Current Agriculture Research Journal</i> 4(2): 159-170	2016
<b>Karki H</b> , Rana P, Bargali K, Bargali SS, Rawat YS	Effect of Biotic Disturbances on Herbaceous Vegetation in Cypress Mixed Oak Forests of Central Himalaya, India.	<i>Current World Environment</i> 11(2): 413-422	2016

#### b) Book chapters

Authors name	Title of the book	Publisher	ISBN	Year
<b>Karki H</b> , Bargali K, Bargali SS	Fine roots: The wonderful hidden organs and mainstay of existing Life on this earth.	<i>Oaks</i> , 17: 81-85	0975-5918	2023
Vibhuti, <b>Karki H</b> , Bargali K.	<i>Ecological Ignorance in Development Raising Disastrous Possibilities</i>	<i>Anamika Publishers &amp; Distributors (P) Ltd.</i>	978-81-7975-894-6	2017
<b>Karki H</b>	<i>Taxus baccata</i> Linn. Spp. <i>Wallichiana</i> (Zucc.) Pilger: A Critically Endangered Species of Uttarakhand.	<i>Oaks</i> , 10: 81-85	0975-5918	2014

**c) Conference Publications/Proceedings**

<b>Authors name</b>	<b>Title of the paper</b>	<b>Conference name</b>	<b>Year</b>
<b>Himani Karki,</b> Kiran Bargali, SS Bargali	Variations in Fine Root Dynamics and Nitrogen Mineralization Among Two Different Agrisilviculture Systems of Kumaun Himalaya, India	Uttarakhand State Science And Technology Congress (USSTC)	2024
<b>Himani Karki,</b> Kiran Bargali, SS Bargali	CO <sub>2</sub> Mitigation potential of Soils under different land-use systems in Kumaun Himalayan region of Uttarakhand	Global Perspective in Agricultural and Applies Sciences for Food and Security (GAAFES)	2019
<b>Himani Karki,</b> Kiran Bargali, SS Bargali	Soil properties under different land use systems of Kumaun Himalaya	13 <sup>th</sup> UCOST held at Dehradun	2019
<b>Himani Karki,</b> Kiran Bargali, SS Bargali	Soil Organic carbon stock under different land use systems in Bhabhar region of Kumaun Himalaya	Sustainable Development: Strategies & Emerging Trends	2018
<b>Himani Karki,</b> Kiran Bargali, SS Bargali	Spatial and temporal distribution of fine root biomass under different land use patterns in Kumaun Himalaya	Future India: Science & Technology	2018
<b>Himani Karki,</b> Kiran Bargali, SS Bargali	Distribution of Fine Root Biomass of Trees in Different Land Use Patterns in Kumaun Himalaya	Indian Science Congress Association held at University of Imphal, Manipur	2018
Vibhuti, <b>Himani Karki,</b> Kiran Bargali, SS Bargali	Effect of Homegarden Size on Species Composition in Nainital District of Kumaun Himalaya	UCOST	2016
<b>Himani Karki,</b> Kiran Bargali, SS Bargali	Effect of Anthropogenic Disturbances in the Regeneration Status of Temperate Cypress Mixed Oak Forest	UCOST	2016
<b>Himani Karki,</b> Kiran Bargali, SS Bargali	Effect of Disturbances of Herbaceous Vegetation in Oak-Mixed Cypress Forest of Central Himalaya	Indian Science Congress Association	2016

## Projects

Title of the project	Funding agency	Amount (Rs)	Year
DSB Campus, an academic institution of Kumaun University, Nainital as a valuable resource for urban biodiversity research and conservation	Kumaun University, Nainital	2,0000	2024

## Teaching details

Name of the course/paper	Department	University	Year
Gymnosperms and Paleobotany,	Botany	Kumaun University	2022- till date
Plant Ecology	Botany	Kumaun University	2022- till date
Forest Ecology	Botany	Kumaun University	2022- till date
Vocational Courses in Botany includes	Botany	Kumaun University	2022- till date
Mushroom Cultivation	Botany	Kumaun University	2022- till date
Ethnobotany	Botany	Kumaun University	2022- till date
Herbal Technology	Botany	Kumaun University	2022- till date
Conservation and Natural Resource Management	Botany	Kumaun University	2022- till date
Environmental Science	B.A., B.Sc. and B. Com	Kumaun University	2022- 2023

## Professional Memberships

Organization	Position	Year
Oaks Annual News Letter, Department of Botany, DSB Campus	Life Member	2021

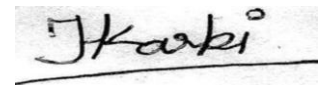
## Honours and Awards

Award	Awarding Organization	Year
The Bharat Scouts & Guides	President of India	2007

## Conference Presentations

Title of presentation	Conference name	Name of the institution	Year
<b>Oral Presentations</b>			
Variations in Fine Root Dynamics and Nitrogen Mineralization Among Two Different Agrisilviculture Systems of Kumaun Himalaya, India	Uttarakhand State Science And Technology Congress (USSTC)	Uttarakhand Open University, Haldwani	2024
Tree Fine Root Dynamics and Nitrogen Mineralization in Agroforestry Based Land Use Systems of Kumaun Himalaya, India	Biodiversity Conservation and Environmental Sustainability	Government College Pathariya District Damoh MP	2023
CO <sub>2</sub> Mitigation Potential of soils Under Different Land Use Systems in Kumaun Himalayan Region of Uttarakhand	International Conference on Global Perspective in Agricultural and Applied Sciences for Food and Environmental Security (GAAFES)	UGC-HRDC Hall, Kumaun University	2019
Spatial and Temporal Distribution of Fine Root Biomass Under Different Land Use Patterns in Kumaun Himalaya	Conference of Indian Science Congress Association (Haridwar Chapter)	G.P. Pant University of Agriculture and Technolgy, Pantnagar	2018
<b>Poster Presentations</b>			
Soil Organic Carbon Stock Under Different Land Use Systems in Bhabhar Region of Kumaun Region	International Conference on Sustainable Development: Strategies & Emerging Trends	Netaji Subhash Chandra Bose Gov. Girls P.G. College Aliganj, Lucknow	2018
Soil Properties Under Different Land Use Systems of Kumaun Himalaya	Uttarakhand State Council for Science & Technology (UCOST)	Dehradun	2019

Effects of Homegarden Size on Species Composition in Nainital District of Kumaun Himalaya	Uttarakhand State Council for Science & Technology (UCOST)	Dehradun	2016
Effect of Anthropogenic Disturbances in the Regeneration Status of Temperate Cypress Mixed Oak Forest	Uttarakhand State Council for Science & Technology (UCOST)	Dehradun	2016
Effect of Disturbances on Herbaceous Vegetation in Oak-Mixed Cypress Forest of Central Himalaya	The Indian Science Congress Association,	University of Mysore, Mysuru	2016



**Signature of the faculty member**